

H.7

**Notice of Allowability**

Application No.

10/629,365

Examiner

Tuan T. Nguyen

Applicant(s)

BAJWA ET AL.

Art Unit

2824

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Election/Restriction Letter filed on 10/28/05.
2. ☒ The allowed claim(s) is/are 1-13 and 20-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

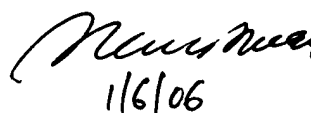
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 5/24/04, 7/29/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other search history printout.

  
Tuan T. Nguyen  
Examiner  
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## **DETAILED ACTION**

### ***Election/Restrictions***

1. Applicant's election without traverse of claims **1-13 and 20-27** in the reply filed on 10/28/05 is acknowledged.
2. Claims **14-19** have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 10/28/05

### ***Information Disclosure Statement***

3. The information disclosure statement (IDS) submitted on 5/24/04 and 7/29/03 were filed after the mailing date of the present application on 7/29/03. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

## **EXAMINER'S AMENDMENT**

The application has been amended as follows:

Page 6, line 2, change "**220**" to – **221** –

Page 11, line 27, change "**Fig. 3**" to – **Fig. 3A** –

### ***Allowable Subject Matter***

4. Claims **1-13 and 20-27** are allowed.
5. The following is an examiner's statement of reasons for allowance:

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The prior art of record (Proebsting US 6,462,998; Duh et al. US 6,795,360 and Wright et al. US 6,665,222) fail to disclose a serially-programmable integrated circuit (IC) comprising, in combination with other cited limitations, a memory array having a first width, the memory array comprising a plurality of primary columns and a plurality of redundant columns, the plurality of primary columns having a second width and the plurality of redundant columns having a third width; a data register coupled to receive the serial programming data from the first input connector, the data register comprising a shift register having a fourth width, the fourth width being a divisor of the second width and the third width; a bitline latch for loading a data word into the memory array, the bitline latch having the first width; and a column multiplexer for performing a loading operation to load data in parallel from the data register into the bitline latch as recited in claim 1.

Claims 2-13 are therefore allowed because of their dependency on claim 1.

The prior art of record further fail to disclose an integrated circuit comprising, in combination with other cited limitations, a memory array having a first width, the memory array including a plurality of primary columns and a plurality of redundant columns; a data register coupled to the TDI terminal, the data register having a second width, the second width being less than the first width; and a bitline latch coupled between the data register and the memory array, the bitline latch having the first width as recited in claim 20.

Claims 21-27 are therefore allowed because of their dependency on claim 20.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Nguyen whose telephone number is 571-272-1880. The examiner can normally be reached on Monday - Friday, 8AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on 571-272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Tuan T Nguyen  
Primary Examiner  
Art Unit 2824

January 6, 2006